

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532997

Luminaire Tested: **GALN-SA8B-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19925 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

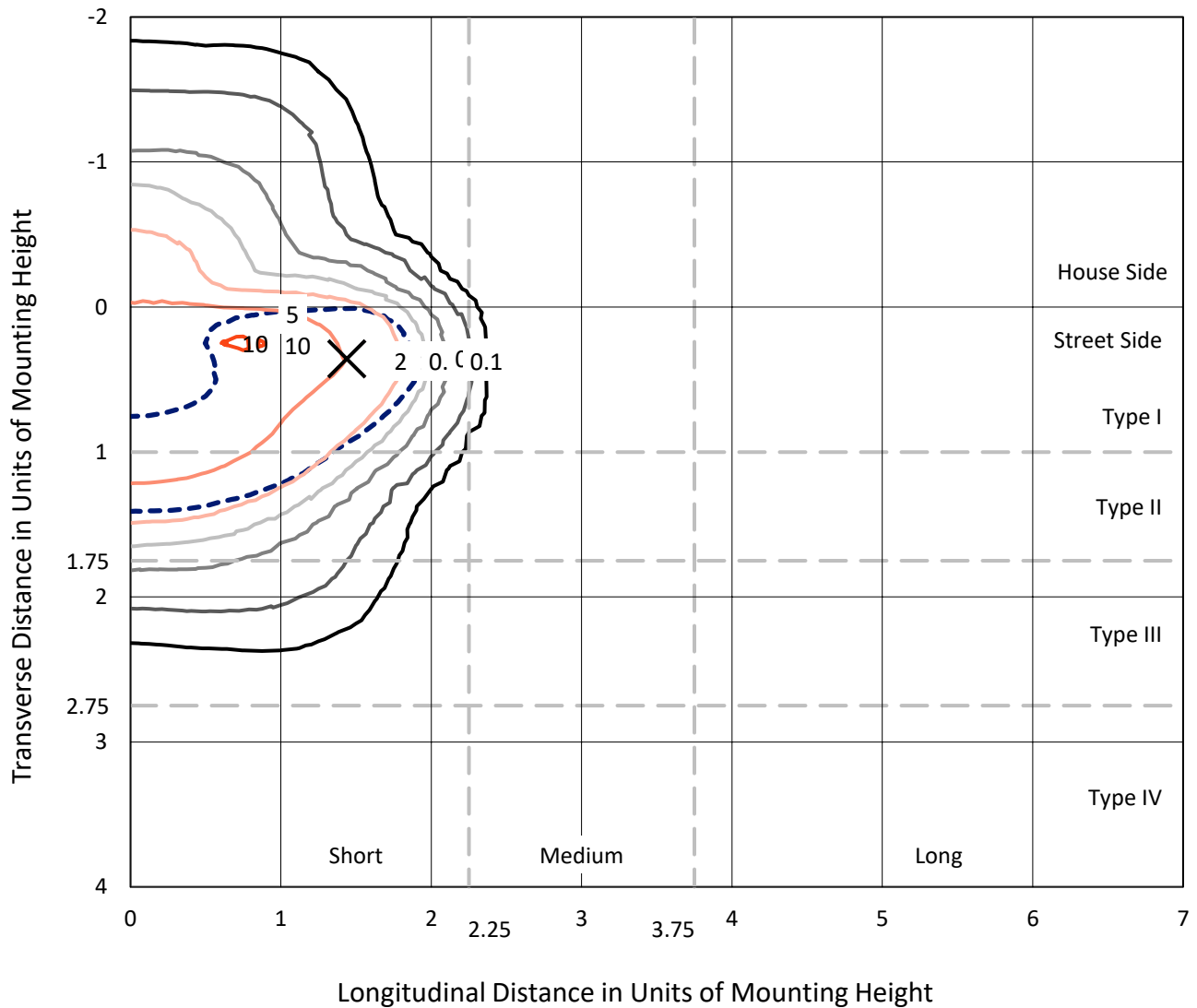
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA8B-827-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

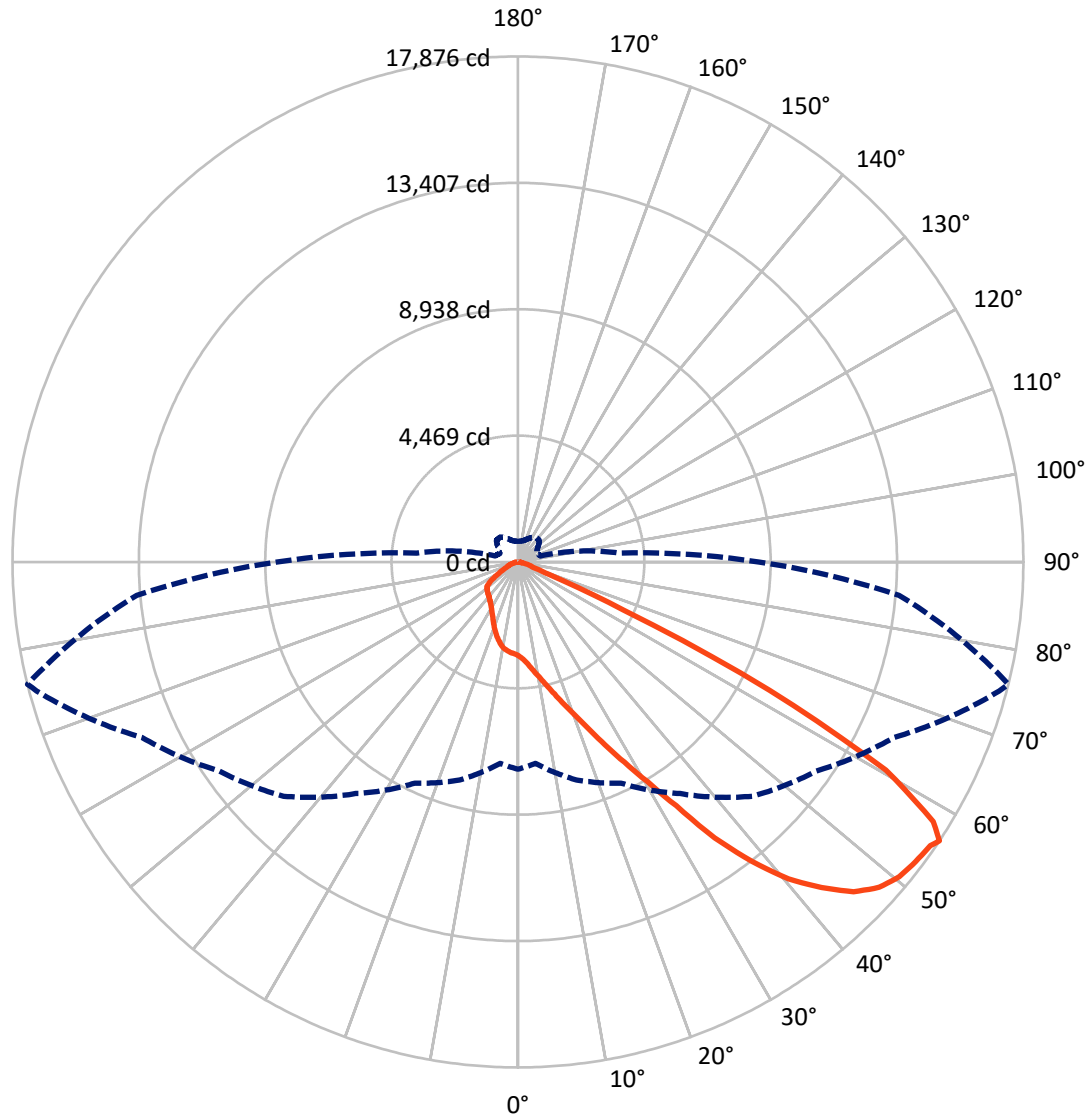
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

REPORT NUMBER: P532997
CATALOG NUMBER: GALN-SA8B-827-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3130.1	0.0	3130.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	16794.9	0.0	16794.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	19925.0	0.0	19925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.1	1.7
10°-20°	1073.3	5.4
20°-30°	1946.2	9.8
30°-40°	3356.4	16.8
40°-50°	5452.5	27.4
50°-60°	5747.2	28.8
60°-70°	1756.0	8.8
70°-80°	225.1	1.1
80°-90°	34.2	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19925.0	100.0
0°-180°	19925.0	100.0

Coefficient of Utilization

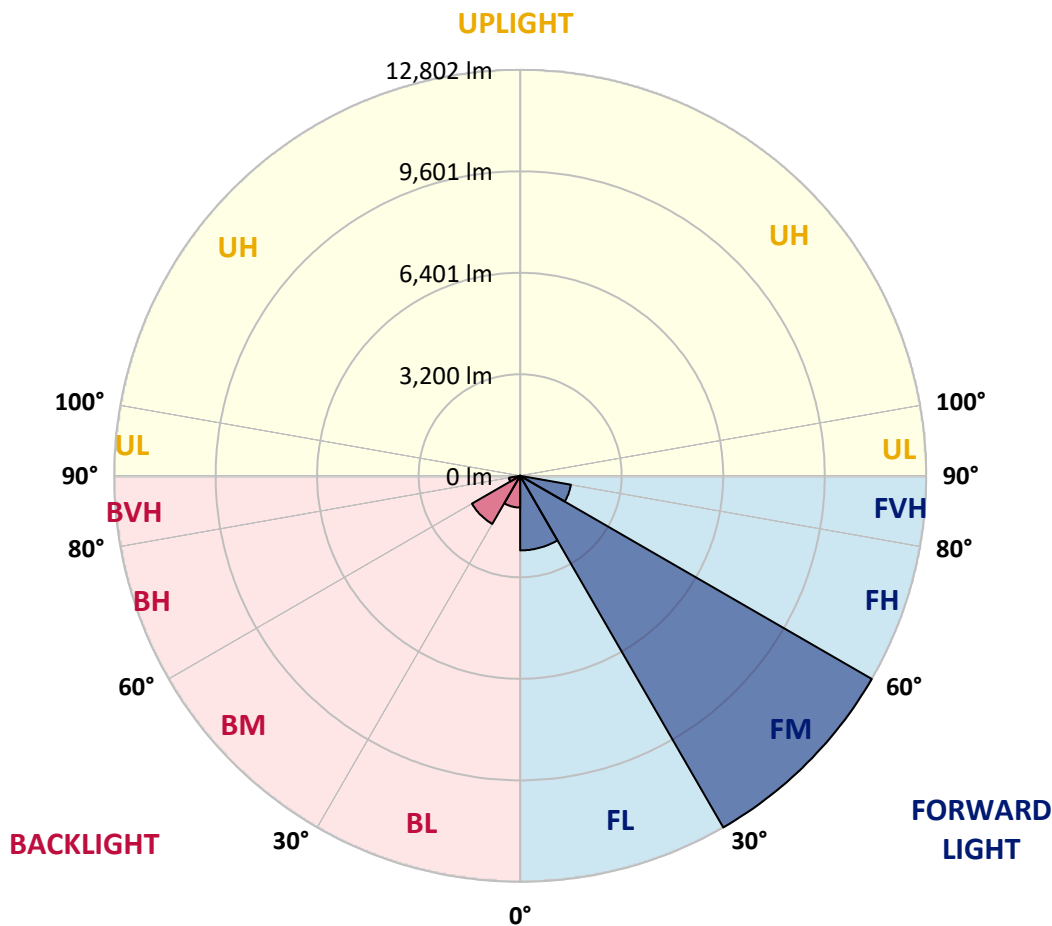


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2352.3	11.8			
FM (30°-60°)	12801.8	64.2			
FH (60°-80°)	1624.0	8.2			G1/1800
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1001.3	5.0	B3/2500		
BM (30°-60°)	1754.2	8.8	B2/2500		
BH (60°-80°)	357.1	1.8	B1/500		G1/500
BVH (80°-90°)	17.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





REPORT NUMBER: P532997

CATALOG NUMBER: GALN-SA8B-827-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5
2.5°	3819.7	3731.6	3735.2	3727.9	3716.9	3676.5	3555.3	3536.9	3456.1	3434.1	3360.6
5°	4278.8	4201.7	4245.8	4179.7	4117.2	4080.5	3882.2	3790.3	3661.8	3614.0	3511.2
7.5°	4565.3	4528.6	4513.9	4517.6	4458.8	4367.0	4278.8	4076.8	3904.2	3867.5	3650.8
10°	4704.9	4682.8	4704.9	4693.8	4719.6	4730.6	4576.3	4455.1	4201.7	4139.3	3801.4
12.5°	4737.9	4782.0	4800.4	4848.1	4910.5	5017.1	5006.0	4840.8	4502.9	4462.5	4032.7
15°	4818.7	4855.5	4837.1	4914.2	5031.7	5211.7	5307.2	5281.5	4917.9	4844.4	4300.9
17.5°	4892.2	4826.1	4888.5	5042.8	5160.3	5435.8	5667.1	5773.7	5369.6	5285.2	4546.9
20°	4991.3	4973.0	4962.0	5039.1	5248.4	5615.7	6074.8	6269.5	5876.5	5788.3	4899.5
22.5°	5292.5	5296.2	5288.8	5175.0	5325.6	5740.6	6431.1	6912.2	6482.5	6409.1	5299.9
25°	5689.2	5641.4	5604.7	5512.9	5494.5	5854.5	6791.0	7698.2	7209.7	7158.3	5733.3
27.5°	6107.9	6107.9	5997.7	5913.2	5795.7	6137.3	7121.6	8462.2	8087.5	8017.7	6111.6
30°	6563.3	6589.0	6574.3	6394.4	6320.9	6445.8	7459.5	9439.1	9093.9	9005.7	6735.9
32.5°	7235.4	7180.3	7242.8	7092.2	6875.5	6985.7	7992.0	10313.2	10401.4	10276.5	7555.0
35°	8124.3	8091.2	8050.8	7804.7	7547.6	7635.8	8745.0	11389.4	12043.1	11980.7	8381.3
37.5°	8921.3	8902.9	8869.8	8700.9	8403.4	8509.9	9600.7	12509.6	13644.5	13438.8	9549.3
40°	9758.7	9857.8	9751.3	9600.7	9328.9	9564.0	10607.1	13174.4	14992.4	14742.7	10441.8
42.5°	10893.6	10816.4	10864.2	10588.7	10441.8	10698.9	11617.1	13839.1	16039.2	15741.7	11389.4
45°	12101.9	12105.6	11977.0	11888.9	11506.9	11786.0	12237.8	14206.4	16872.9	16641.5	12105.6
47.5°	12876.9	12873.2	13012.8	13152.3	12759.3	12483.9	12660.2	14555.3	17302.6	17196.1	12366.3
50°	12755.7	12792.4	12972.4	13493.9	13699.6	13328.6	13056.8	14452.5	17497.3	17486.2	12590.4
52.5°	11095.6	11216.8	11517.9	12270.9	13306.6	13765.7	13471.9	14643.5	17592.8	17611.1	12924.6
55°	8447.5	8513.6	9086.5	10001.1	11147.0	12718.9	13306.6	14794.1	17666.2	17699.3	13328.6
56°	7327.3	7151.0	7977.3	8627.4	9997.4	11716.3	12887.9	14676.5	17622.1	17875.6	13530.6
57.5°	5531.2	5413.7	6082.2	6893.9	8212.4	10026.8	11587.7	14121.9	17324.6	17321.0	13240.5
60°	3364.3	3246.8	3761.0	4238.4	4976.7	6174.0	7830.4	11246.1	14647.2	14955.7	10720.9
62.5°	2001.7	2075.1	2582.0	2872.1	3110.9	3235.7	4051.1	6684.5	9773.3	9993.7	6651.5
65°	1333.2	1358.9	1740.9	2218.4	2324.9	1851.1	1649.1	2706.9	4238.4	4102.5	2743.6
67.5°	822.7	881.5	1168.0	1667.5	1847.4	1351.6	782.3	1010.0	1168.0	1168.0	793.3
70°	499.5	528.9	778.6	1134.9	1267.1	870.5	569.3	569.3	561.9	550.9	473.8
72.5°	238.7	257.1	396.7	584.0	595.0	459.1	440.7	481.1	470.1	466.4	393.0
75°	102.8	110.2	139.6	183.6	209.4	194.7	268.1	345.2	356.3	345.2	282.8
77.5°	33.1	36.7	51.4	66.1	69.8	84.5	113.9	143.2	165.3	154.3	139.6
80°	3.7	7.3	14.7	33.1	51.4	66.1	84.5	95.5	106.5	106.5	99.2
82.5°	3.7	3.7	14.7	29.4	47.7	62.4	80.8	91.8	106.5	110.2	102.8
85°	0.0	3.7	11.0	25.7	40.4	40.4	36.7	36.7	25.7	25.7	25.7
87.5°	0.0	0.0	3.7	3.7	3.7	7.3	7.3	7.3	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GALN-SA8B-827-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5	3316.5
2.5°	3345.9	3338.6	3239.4	3177.0	3143.9	3077.8	3037.4	3008.0	2986.0	2960.3	2964.0
5°	3390.0	3364.3	3199.0	3085.2	2949.3	2875.8	2813.4	2762.0	2728.9	2721.6	2706.9
7.5°	3514.9	3379.0	3129.2	2923.6	2750.9	2677.5	2622.4	2589.3	2604.0	2571.0	2596.7
10°	3610.4	3408.4	3044.8	2747.3	2574.6	2519.5	2490.2	2515.9	2552.6	2537.9	2519.5
12.5°	3727.9	3437.7	2908.9	2578.3	2416.7	2376.3	2427.7	2475.5	2548.9	2578.3	2541.6
15°	3860.1	3470.8	2736.2	2383.7	2280.8	2313.9	2402.0	2486.5	2559.9	2596.7	2618.7
17.5°	4021.7	3459.8	2567.3	2229.4	2152.3	2247.8	2354.3	2431.4	2541.6	2596.7	2582.0
20°	4172.3	3423.1	2380.0	2075.1	2078.8	2167.0	2255.1	2380.0	2438.7	2512.2	2486.5
22.5°	4315.6	3356.9	2185.3	1968.6	1968.6	2104.5	2148.6	2229.4	2280.8	2317.5	2313.9
25°	4517.6	3232.1	2023.7	1865.8	1909.9	1998.0	2034.7	2060.4	2038.4	2067.8	2071.5
27.5°	4660.8	3103.5	1891.5	1774.0	1854.8	1920.9	1909.9	1895.2	1843.7	1803.3	1829.1
30°	4815.1	2952.9	1777.6	1711.5	1755.6	1814.4	1770.3	1726.2	1645.4	1579.3	1583.0
32.5°	5035.4	2883.2	1678.5	1638.1	1696.8	1704.2	1656.4	1590.3	1509.5	1447.1	1443.4
35°	5446.8	2839.1	1594.0	1590.3	1601.3	1605.0	1557.3	1476.5	1443.4	1392.0	1410.4
37.5°	5858.1	2817.0	1535.2	1520.5	1516.9	1520.5	1465.5	1388.3	1450.8	1447.1	1454.4
40°	6383.3	2916.2	1450.8	1432.4	1436.1	1436.1	1366.3	1344.2	1454.4	1465.5	1469.1
42.5°	6915.9	3041.1	1395.7	1336.9	1351.6	1351.6	1314.9	1289.2	1366.3	1292.8	1281.8
45°	7378.7	3224.7	1336.9	1241.4	1278.1	1296.5	1285.5	1241.4	1193.7	1068.8	1068.8
47.5°	7529.3	3386.3	1267.1	1149.6	1179.0	1259.8	1226.7	1134.9	1050.4	947.6	940.2
50°	7793.7	3562.6	1212.0	1043.1	1105.5	1204.7	1171.6	1079.8	984.3	910.9	914.5
52.5°	8065.5	3764.6	1109.2	918.2	995.3	1160.6	1160.6	1057.8	910.9	859.4	852.1
55°	8473.2	3757.3	925.5	752.9	888.8	1094.5	1112.9	947.6	815.4	775.0	775.0
56°	8531.9	3588.3	833.7	705.2	841.1	1076.1	1079.8	918.2	778.6	734.6	734.6
57.5°	8091.2	3239.4	730.9	646.4	782.3	1043.1	1046.8	892.5	749.3	686.8	679.5
60°	6225.4	2192.7	609.7	576.6	708.9	940.2	958.6	811.7	657.4	609.7	606.0
62.5°	3514.9	1215.7	536.2	521.5	609.7	800.7	855.8	708.9	558.3	532.6	539.9
65°	1605.0	668.5	451.8	422.4	492.2	617.0	690.5	584.0	459.1	429.7	429.7
67.5°	587.6	455.4	385.6	334.2	345.2	400.3	448.1	378.3	304.8	260.8	271.8
70°	418.7	382.0	337.9	290.2	268.1	260.8	257.1	213.0	150.6	117.5	124.9
72.5°	337.9	315.9	282.8	246.1	209.4	176.3	150.6	110.2	69.8	47.7	44.1
75°	242.4	231.4	205.7	176.3	146.9	124.9	102.8	69.8	36.7	18.4	18.4
77.5°	124.9	124.9	121.2	110.2	91.8	73.5	58.8	40.4	22.0	7.3	7.3
80°	95.5	102.8	106.5	95.5	84.5	66.1	47.7	29.4	14.7	3.7	3.7
82.5°	91.8	106.5	113.9	99.2	84.5	62.4	47.7	29.4	14.7	3.7	3.7
85°	22.0	22.0	33.1	36.7	47.7	51.4	40.4	25.7	11.0	3.7	3.7
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	3.7	3.7	3.7	3.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)